

**SAF-RC-001**  
**Industrial Hygiene Sampling**  
**FINAL DATA**

**NO DISTRIBUTION REQUIRED**

**COMMENTS:**

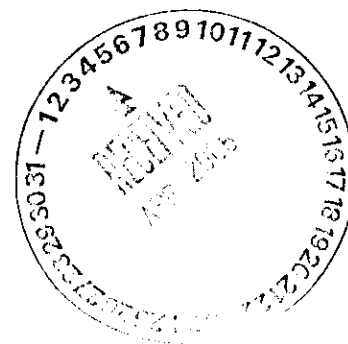
SDG 06I-1492-01 SAF-RC-001

Rad only    ☒    Chem only    Rad & Chem

☒ Complete                      Partial

**300 Area 303F Bldg**

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Report Identification Number: 06I-1492-01  
 Subcontract Number: 0000X-BO-G0058-B-Mod#4  
 Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby  
 Laboratory Identification Number: DCHM  
 SAF#: RC-001 / R303F0 J452  
 Payroll#: 8C292

## Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
29 Mar 2006	J11H57	06I12103	NMAM 7300M	G062Z00Q	MCE
29 Mar 2006	J11ML4	06I12104	NMAM 7300M	G062Z00Q	MCE
29 Mar 2006	J11ML5	06I12105	NMAM 7300M	G062Z00Q	MCE
29 Mar 2006	J11ML2	06I12106	NMAM 7300M	G062Z00Q	MCE
29 Mar 2006	J11ML3	06I12107	NMAM 7300M	G062Z00Q	MCE
29 Mar 2006	J11FJ0	06I12108	NMAM 7300M	G062Z00Q	MCE
29 Mar 2006	J11FJ1	06I12109	NMAM 7300M	G062Z00Q	MCE

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Name: Joanna C. Sanchez  
 Title: Chemist  
 Date: April 04, 2006

*needs our volumes  
 from project  
 JK  
 4/4/06*

Report Identification Number: 06I-1492-01  
Subcontract Number: 0000X-BO-G0058-B-Mod#4  
Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby  
Laboratory Identification Number: DCHM  
SAF#: RC-001 / R303F0 J452  
Payroll#: 8C292

**General Set Information:** There are 7 samples in set 06I-1492-01 which were analyzed for beryllium, lead and cadmium on MCE filter. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

**Method Summary:** Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 10 mL of 1:1 (v/v) nitric acid. Samples were digested in a hot block set at 110°C for 40 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

**Sample Preparation:** All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

**Holding Times:** The holding times were met for both sample preparation and analysis.

**Instrument Calibration:** Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

**Initial and Continuing Calibration Verification Analysis:** Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

**Initial and Continuing Calibration Blank Analysis:** No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.01 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.04 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Limit of Quantitation (LOQ) of 0.4 ug/sample.

**Method Blank Analysis:** No beryllium, cadmium or lead was found in the media blank sample above the Contract Required Detection Limit (CRDL).

**Dilution(s):** NA.

**Laboratory Control Sample and Duplicate Analysis:** One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS results were within the control limit of +/- 20%. The Relative Percent Differences (RPD) between the LCS and the LCSD were within the control limit of 20%.

**Replicate Analysis:** One sample was replicated with this analysis run. The RPD between the sample and the replicate was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

**Flagging Codes:** None

**Nonconformance/Corrective Action Report (NC/CAR):** N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu\text{g}/\text{sample}$ ) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu\text{g}/\text{L}$ )

B = Concentration factor from sample preparation

=  $\frac{\text{Final Volume of Digestate (L)}}{\text{Sample}}$

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu\text{g}/\text{L}) \times (0.025 \text{ L}/\text{sample}) \times (1) = 0.025 \mu\text{g}/\text{sample}$

**Miscellaneous Comments:** None.



## Report Page

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Report Identification Number: 06I-1492-01

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 / R303F0 J452

Payroll#: 8C292

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Beryllium µg/sample		Lead µg/sample		Cadmium µg/sample	
J11H57	06I12103	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
J11ML4	06I12104	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
J11ML5	06I12105	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
J11ML2	06I12106	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
J11ML3	06I12107	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
J11FJ0	06I12108	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
J11FJ1	06I12109	03 Apr 2006	<0.01	U	<0.4	U	<0.04	U
Limit of Detection (LOD)			0.01		0.4		0.04	
Required Detection Limit (RDL)								

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.

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SAF: RC-001 / R303F0 J452  
Payroll#: 8C292

Batch ID: G062Z00Q

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-243471-1	MB	Beryllium	µg/sample	ND	NA	NA	NA	NA
BL-243471-1	MB	Lead	µg/sample	ND	NA	NA	NA	NA
BL-243471-1	MB	Cadmium	µg/sample	ND	NA	NA	NA	NA
QC-243471-1	LCS	Beryllium	µg/sample	10.5	NA	10.0	105.	NA
QC-243471-1	LCS	Lead	µg/sample	103.	NA	100.	103.	NA
QC-243471-1	LCS	Cadmium	µg/sample	30.0	NA	30.0	99.9	NA
QD-243471-1	LCSD	Beryllium	µg/sample	10.6	10.5	10.0	106.	0.221
QD-243471-1	LCSD	Lead	µg/sample	102.	103.	100.	102.	0.724
QD-243471-1	LCSD	Cadmium	µg/sample	30.1	30.0	30.0	100.	0.402

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

$LCS, LCSD \text{ Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$

$MS, MSD \text{ Percent Rec.} = ((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$

$LCS, LCSD \text{ Relative Percent Diff.} = ( (|LCS - LCSD|) / ((LCS + LCSD)/2.0) ) * 100.$

$MS, MSD \text{ Relative Percent Diff.} = ( (|MS - MSD|) / ((MS + MSD)/2.0) ) * 100.$

$LD \text{ Relative Percent Diff.} = ( (|Parent - LD|) / ((Parent + LD)/2.0) ) * 100$

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST												
Collector: C. BATES		Company Contact: Denise A. Pitts and Henry W. Ruby		Telephone No. 531-1229		Project Coordinator: Joan H. Kessner		Data Terminated: 24 HELL				
Payroll #: 8C292		Sampling Location: 300 AREA		SPECIAL INSTRUCTIONS: All relevant COAs must be provided:		SAF No. 9C-001		3 DAY				
Type of Sample: Be, Pb, Cd		303F Bldg.		R303FO J452		Method of Shipment: FEB EX		4:3006				
Shipped To: DARTHEM		Wipe Sample Media: <input type="checkbox"/> Yes <input type="checkbox"/> No N/A		ANALYSIS METHOD (SPECIFIC): NIOSH METHOD 7300		Bill of Lading/Air Bill No. 8544 9435 5089						
SPECIAL INSTRUCTIONS: Be, Cd, Pb		Matrix: A - AIR, W1 - WIFE, X - OTHER		Preservation (i.e. cooling required, etc.):								
POSSIBLE SAMPLE NAME/ADDRESS MARKS: Be, Pb, Cd												
Special Handling/Storage: N/A												
SAMPLE ANALYSIS												
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) (g)	Comments	Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne
J11H57	A	3-29-06			X	X	X					X
J11M14	A	3-29-06			X	X	X					X
J11M15	A	3-29-06			X	X	X					X
J11M12	A	3-29-06			X	X	X					X
J11M13	A	3-29-06			X	X	X					X
J11F50	A	3-29-06		NA BLANK	X	X	X					X
J11F51	A	3-29-06		NA BLANK	X	X	X					X
					X	X	X					X

Enter on line below the first Sample Number from Page One:

511HS7

[illegible]

REVIEWED BY:

DATE:

**PRINT/SIGN NAME**

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15016267801 20C-HS-HCM





# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

Collector: <b>C BATES</b>	Company Contact Denise A. Pitts and Henry W. Ruby	Telephone No. 531-1229	Project Coordinator Joan H. Kessner	Data Turnaround <b>24 Hour</b>								
Payroll #: <b>8C292</b>	Sampling Location <b>300 AREA</b>	SPECIAL INSTRUCTIONS All relevant COAs must be provided: <b>R303FO J452</b> ANALYSIS METHOD (SPECIFIC): <b>NIOSH METHOD 7300</b> <b>Be, Cd, Pb</b>	SAF No. RC-001	<b>3 DAY</b> <b>Hj 3-30-06</b>								
Type of Sample: <b>Be, Pb, Cd</b> <b>AIR</b>	<b>303F Bldg.</b>		Method of Shipment <b>FED EX</b>									
Shipped To: <b>DATA CITEM</b> <b>SALT LAKE CITY, UT</b>	Wipe Sample Media: Ghost <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>NA</b> Other _____	Bill of Lading/Air Bill No. <b>8544 9435 5089</b>										
POSSIBLE SAMPLE HAZARD/RI MARKS <b>Be, Pb, Cd</b>	MATRIX A - AIR WI - WIPE X - OTHER	Preservation (i.e., cooling required, etc.)	No	No	No	No	No	No	No	No		
Special Handling and/or Storage <b>NA</b>			No	No	No	No	No	No	No	No		
SAMPLE ANALYSIS					Asbestos Airborne	Lead Airborne	Beryllium Airborne	Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) of Area <u>1</u> <sup>1</sup> <sub>100</sub>	Comments								
J11H57	A	3-29-06				X	X					X
J11ML4	A	3-29-06				X	X					X
J11ML5	A	3-29-06				X	X					X
J11ML2	A	3-29-06				X	X					X
J11ML3	A	3-29-06				X	X					X
J11FJO	A	3-29-06	NA	BLANK		X	X					X
J11FJ1	A	3-29-06	NA	BLANK		X	X					X

J11H57

REVIEWED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
PRINT/SIGN NAME

**Kessner, Joan H**

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**From:** Whatley, Zona G (Gwen)  
**Sent:** Wednesday, April 05, 2006 12:21 PM  
**To:** Kessner, Joan H; 'griffiths@datachem.com'  
**Subject:** RE: MCE data

For 06I-1492-01, the volumes are.....  
 J11H57 has a volume of 1008 liters  
 J11ML4 has a volume of 1623 liters  
 J11ML5 has a volume of 5580 liters  
 J11ML2 has a volume of 6177 liters  
 J11ML3 has a volume of 7172 liters

Sorry about the inconvenience.  
 Gwen

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**From:** Kessner, Joan H  
**Sent:** Tuesday, April 04, 2006 8:32 AM  
**To:** Diedtrich, David J; Whatley, Zona G (Gwen)  
**Cc:** Pitts, Denise A  
**Subject:** RE: MCE data

Will do.  
 Thanks.

---

**From:** Diedtrich, David J  
**Sent:** Tuesday, April 04, 2006 8:04 AM  
**To:** Kessner, Joan H; Whatley, Zona G (Gwen)  
**Cc:** Pitts, Denise A  
**Subject:** FW: MCE data

Gwen, We need to provide Joan with air volumes. Joan, when you get the volumes from Gwen, would you please forward to the lab and have them correct report. Sorry.

---

**From:** Griffiths, Kevin W. [mailto:griffiths@datachem.com]  
**Sent:** Tuesday, April 04, 2006 7:27 AM  
**To:** Kessner, Joan H  
**Cc:** Pitts, Denise A; henry.ruby@wch-rcc.com; Diedtrich, David J  
**Subject:** MCE data

Note that air volumes were not provided

Kevin Griffiths  
 Project Manager  
 (801) 904-4302  
 Cell (801) 835-9597  
 griffiths@datachem.com

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4/5/2006

**Kessner, Joan H**

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**From:** Griffiths, Kevin W. [griffiths@datachem.com]  
**Sent:** Tuesday, April 04, 2006 7:27 AM  
**To:** Kessner, Joan H  
**Cc:** Pitts, Denise A; henry.ruby@wch-rcc.com; Diedtrich, David J  
**Subject:** MCE data

**Attachments:** 06I-1492-01.TXT; 06I-1492-01.pdf

Note that air volumes were not provided

Kevin Griffiths  
Project Manager  
(801) 904-4302  
Cell (801) 835-9597  
griffiths@datachem.com

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need  
dir  
volumes  
from  
project  
will need  
scr

4/4/2006